



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>6</sup> :</b> <b>D21H 27/38, C09J 7/04</b>	<b>A1</b>	<b>(11) International Publication Number:</b> <b>WO 99/57372</b> <b>(43) International Publication Date:</b> 11 November 1999 (11.11.99)
<b>(21) International Application Number:</b> PCT/US99/08416 <b>(22) International Filing Date:</b> 16 April 1999 (16.04.99) <b>(30) Priority Data:</b> 10/122145 ✓ 1 May 1998 (01.05.98) JP <b>(71) Applicant (for all designated States except US):</b> MINNESOTA MINING AND MANUFACTURING COMPANY [US/US]; 3M Center, P.O. Box 33427, Saint Paul, MN 55133-3427 (US). <b>(72) Inventor; and</b> <b>(75) Inventor/Applicant (for US only):</b> SAKAKIBARA, Makoto [JP/JP]; 72-3-301, Kidukidaimachi, Nakahara-ku, Kawasaki-city, Kanagawa-pref. 211 (JP). <b>(74) Agents:</b> TRUSSELL, James, J. et al.; Minnesota Mining and Manufacturing Company, Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).		<b>(81) Designated States:</b> CN, DE, KR, US.  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> PAPER BACKING AND ADHESIVE SHEET USING THE SAME  <b>(57) Abstract</b>  A paper backing for supporting a secondary layer, and that can be advantageously used particularly in the manufacturing of an adhesive sheet. A paper backing having a double-layer paper structure comprises a first paper layer and a second paper layer, the first paper layer and second paper layer each being manufactured from wood pulp and short fiber so that the blending ratios of short fiber to the wood pulp in the first and second paper layers are different.		

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US 99/08416

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 6    D21H27/38    C09J7/04		
According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) IPC 6    D21H    C09J		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 488 727 A (BRITISH UNITED SHOE MACHINERY ;USM ESPANA SA (ES); DVSG HOLDING GM) 3 June 1992 (1992-06-03) column 4, line 22 - line 47 ---	1
X	DATABASE WPI Section Ch, Week 9029 Derwent Publications Ltd., London, GB; Class A81, AN 90-221710 XP002112333 & JP 02 151427 A (NITTO DENKO CORP), 11 June 1990 (1990-06-11) cited in the application abstract -----	1-4
<input type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&amp;" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search  <div style="text-align: center; font-weight: bold;">18 August 1999</div>		Date of mailing of the international search report  <div style="text-align: center; font-weight: bold;">26/08/1999</div>
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer  <div style="text-align: center; font-weight: bold;">Schlicke, B</div>

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/08416

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0488727 A	03-06-1992	US 5204173 A JP 4285502 A	20-04-1993 09-10-1992
JP 2151427 A	11-06-1990	JP 2589357 B	12-03-1997

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>54030PCT5A</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/US 99/08416</b>	International filing date (day/month/year) <b>16/04/1999</b>	(Earliest) Priority Date (day/month/year) <b>01/05/1998</b>
Applicant  <b>MINNESOTA MINING AND MANUFACTURING COMPANY et al.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

## 1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

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2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No. ---

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 6 D21H27/38 C09J7/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 D21H C09J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ✓	EP 0 488 727 A (BRITISH UNITED SHOE MACHINERY ;USM ESPANA SA (ES); DVSG HOLDING GM) 3 June 1992 (1992-06-03) column 4, line 22 - line 47 ---	1
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## ° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

18 August 1999

Date of mailing of the international search report

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Authorized officer

Schlicke, B

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
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			JP	4285502 A	09-10-1992
<hr/>					
JP 2151427	A	11-06-1990	JP	2589357 B	12-03-1997
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## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

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in its capacity as elected Office

<b>Date of mailing (day/month/year)</b> 25 November 1999 (25.11.99)	<b>Applicant's or agent's file reference</b> 54030PCT5A
<b>International application No.</b> PCT/US99/08416	<b>Priority date (day/month/year)</b> 01 May 1998 (01.05.98)
<b>International filing date (day/month/year)</b> 16 April 1999 (16.04.99)	
<b>Applicant</b> SAKAKIBARA, Makoto	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

15 October 1999 (15.10.99)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was  
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

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